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## Wisconsin Department of Commerce PECFA Program

**Bid Round Number: 07**

**PECFA number: 53214-3898-20**

**BRRTS number: 03-41-003869**

**Site Name: August Schmidt Company**

**Site Address: 11020 W. Mitchell Street, West Allis, Wisconsin**

**Program contact: Jennifer Skinner, Site Review Hydrogeologist**

**Program contact address: 101 W. Pleasant St., Suite 205, Milwaukee, WI 53212**

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### **Submitted Questions and Responses**

1. Will Mann-Kendall analysis utilize all groundwater monitoring data collected, or the last five events, last four events, etc.? The spreadsheet instructions state a minimum requirement of four rounds. Will every monitored parameter have to be shown to be decreasing, or will a compound like benzene be used as a primary focus?

**Based on the Wisconsin Department of Natural Resources' (WDNR) Instructions for Using the Wisconsin DNR Mann Kendall Excel Spreadsheet for Statistical Analysis of Contaminant Trends, the project manager will utilize enough groundwater monitoring data in the Mann Kendall analysis to eliminate bias from seasonal variation and to provide a greater likelihood that the test will establish a decreasing or increasing trend. If the M-K test alone cannot confirm that there is any trend, a second statistical test using the coefficient of variation (CV) will be used.**

**Additionally, a decreasing or stable trend for data from a single monitoring well or a single compound in a well is not sufficient to establish that the entire plume is stable or receding. Therefore, while all contaminants will not necessarily be entered onto the spreadsheet, the project manager will consider the trend of all contaminants.**

2. What's the rationale for monitoring only MW-3, MW-5, and PZ-1 for decreasing trend? Piezometers PZ-2 and PZ-3 were also found to be contaminated on the only round they were sampled. Do we need to sample these wells, along with any other for possible contaminant migration?

**The department is not requiring the monitoring of only MW-3, MW-5, and PZ-1 for decreasing trend. These wells were identified in the bid specifications in the event that the PECFA maximum award for the site is not going to be adequate to remediate the site to a**

**closed or no further remedial action status. In that case, the basis for specifying the progress would be based upon the contaminant mass reduction at PZ-1, MW-3, and MW-5.**

**The department expects that all monitoring wells and piezometers with an enforcement standard exceedence will be included in the winning bid's monitoring plan. Additionally, downgradient monitoring wells and piezometers should be included in the monitoring plan.**

3. The Bid Document indicates that there are no environmental factors present at the site. However, it appears that the plume of contamination is expanding. The benzene level in PZ-1 in the four rounds of sampling has progressively increased and clearly shows an increasing trend. In addition, the monitoring wells MW-3 and MW-5, along with others were not sampled since 1997.

**The groundwater contaminant trend at PZ-1 is inconclusive: all of the parameters monitored decreased substantially in the last round (3/10/00), with the exception of benzene, which increased. While the department did not include source control as a specific requirement in the bid specification, the department expects source control and monitoring to contain the plume.**

4. What is the hydraulic conductivity at the site?

**The hydraulic conductivity was not determined at this site.**